Operator's Manual

Monogram *Series*
DUAL DESK CHARGER
BML 161 54/1,3 (120 VAC)
BML 161 54/2,4 (230 VAC)

ERICSSON

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NOTICE!

This manual covers Ericsson and General Electric products sold by Ericsson Inc.

NOTE

Repairs to this equipment should be made only by an authorized service technician or facility designated by the supplier. Any repairs, alterations or substitution of recommended parts made by the user to this equipment not approved by the manufacturer could void the user's authority to operate the equipment in addition to the manufacturer's warranty.

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IMPORTANT SAFETY INFORMATION

1. **SAVE THIS MANUAL** - It contains important safety and operating instructions for MONOGRAM Series Dual Desk Charger.

2. Before using the battery charger, read all instructions and cautionary markings on (1) the battery charger, (2) the battery, and (3) the product using the battery.

3. **CAUTION** - To reduce the risk of injury, charge only Ericsson battery packs. Charging any other battery pack or batteries may cause the battery to burst and cause personal injury or damage.

4. Do not expose charger to rain or snow.

5. Do not use auxiliary equipment not recommended or sold by the manufacturer. To do so may result in a risk of fire, electric shock, or injury to persons.

6 To reduce risk of damage to electric plug and cord, pull by the plug rather than the cord when disconnecting the charger.

7. Make sure the cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.

8. An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in a risk of fire and electric shock. If an extension cord must be used, make sure:

   a. That pins on the plug of the extension cord are the same number, size, and shape as those on the charger's plug;

b. That the extension cord is properly wired and in good condition; and

c. That the wire size is large enough for the AC ampere rating of the charger as specified in Table 1.

Table 1
Recommended Minimum Size For
Extension Cords

LENGTH OF EXTENSION CORD (ft.)	25	50	100	150
AWG SIZE OF EXTENSION CORD	18	18	18	16

9. Do not operate charger with damaged cord or plug - replace them immediately.

10. Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; return it to a qualified service shop.

11. Do not disassemble the charger; return it to a qualified service shop whcn service or repair is required. Incorrect reassembly may result in a risk of electrical shock or fire.

12. To reduce risk of electric shock, unplug the charger from the outlet before attempting any maintenance or cleaning.

IMPORTANT SAFETY INFORMATION

13. GROUNDING AND AC POWER CORD CONNECTION -To reduce the risk of electrical shock use only a properly grounded outlet. The charger is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. Be sure that the outlet is properly installed and grounded in accordance with all local codes and ordinances.

14. **DANGER** - Never alter the AC cord or plug. If it will not fit in the outlet, have a proper outlet installed by a qualified electrician. Improper connection can result in risk of an electric shock.

15. The BML 161 54/1,3 charger 120 Vac line cord has a grounding plug that looks like the plug illustrated in Figure l. A temporary adapter, which looks like the adapter illustrated in sketches B and C, may be used to connect this plug to a two-pole receptacle as shown in sketch B if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician.

16. **DANGER** - Before using an adapter as illustrated, be certain the center screw of the outlet plate is grounded. The green-color rigid ear or lug extending from the adapter must be connected to a properly grounded outlet--make certain it is grounded. If necessary, replace the outlet cover plate screw with a longer screw that will secure adapter ear or lug to outlet plate and make ground connection to grounded outlet.

17. Care should be taken when placing the charger in service to insure proper top and bottom ventilation. A minimum of 1/4" is required between the bottom of the charger and the surface on which it sits.

IMPORTANT SAFETY INFORMATION

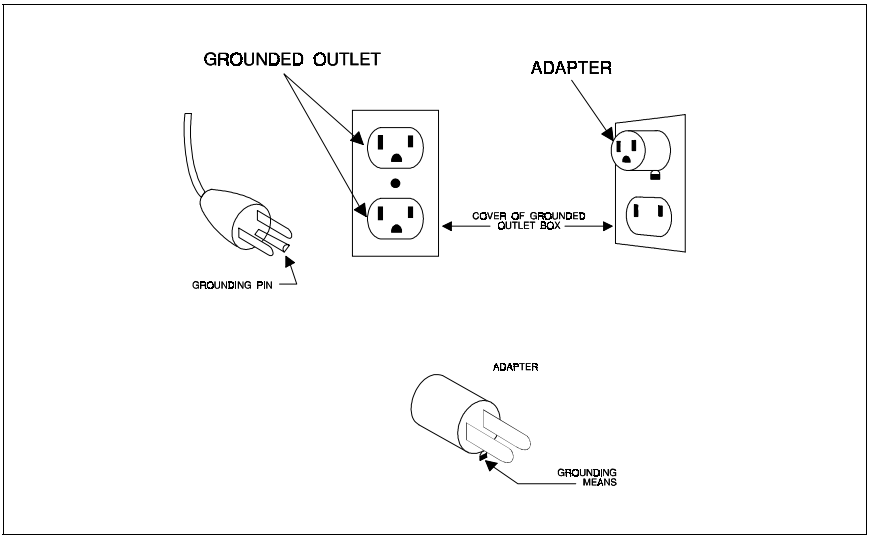


Figure 1 - Grounding Methods

NOTE

Due to the temperature characteristics of nickel-cadmium batteries, the batteries will not accept a full charge at temperature extremes. For maximum capacity, recharge the battery pack at a room temperature of 65° to 85° Fahrenheit, whenever possible.

SPECIFICATIONS

VOLTAGE SOURCE	120 VAC ±10%, 50/60 Hz 230 VAC ±10%, 50/60 Hz
POWER CONSUMPTION	27 watts
FUSE RATING	500mA 125V fast blow
OPERATING TEMPERATURE RANGE	+5° to +45°C (+41° to +113°F)
DIMENSIONS (H x W x D)	
Height	81 mm
Width	143.5 mm
Depth	131 mm
WEIGHT	2.1 lb.
APPROVALS	UL / CSA (BML 151 54/1,3 only)

DESCRIPTION

The Dual Desk Charger is designed to charge Ericsson Monogram Series LTR ® and EDACS Portable radio battery packs.

The rear slot is used for fast charging of a portable radio with battery or independent charging of a battery. This slot charges the battery in 1 to 2 hours.

LTR is a tradename of E.F. Johnson

The front slot is used for slow charging of a portable radio with battery or independent charging of a battery. This slot charges the battery in 14 to 20 hours.

CAUTION

Recharging any battery pack or batteries other than the ones your equipment was designed to charge may result in damage to equipment, leakage, or explosion.

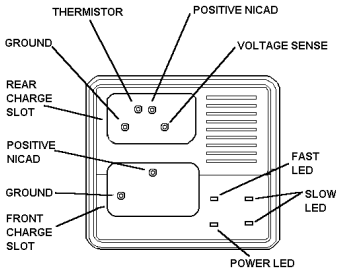
INSTALLATION

Locate the Dual Desk Charger on a desk or other flat surface near a 120/230 VAC 50/60 Hz source. Connect the power cable to a convenient 120/230 VAC outlet.

NOTES

Refer to Dual Desk Charger Maintenance Manual if it is necessary to replace printed wiring boards, components, or assemblies.

Only an authorized or certified electronic technician should attempt to disassemble or service the charger.



INDICATORS

1. Rear Charge Slot: For fast charging of a Monogram Series radio with battery or independent charging of batteries. Polarity of battery in charger must be correct, or no charging will occur.

2. Front Charge Slot: For slow charging of Monogram Series radio with battery or independent charging of batteries. Polarity of battery in charger must be correct, or no charging will occur.

3. FAST LED: Flashes when radio or battery is inserted into Rear Charge Slot.

4. SLOW LED: (in Front Charge Slot) illuminates when radio or battery is inserted. SLOW LED: (in Rear Charge Slot) will illuminate when fast charge is complete, or fully charged battery is inserted.

5. Power LED: Indicates AC power is supplied to charger.

NEVER INSERT A RADIO INTO THE CHARGER WITHOUT A BATTERY INSTALLED

CHARGER OPERATION

Rear Charge Slot: Insert battery or radio with battery into the Rear Charge Slot, observing correct polarity. The FAST LED will begin to flash and fast charge begins according to the amount of charge in the battery. (ln the case of a fully discharged battery, the initial charge is executed during the first minute. The FAST and SLOW LED's will not be illuminated. After the initial charge, the battery mode will change to fast charge.)

ln the fast charge mode, the BKB 191 204/1 or BKB 191 204/2 battery will take approximately 1 hour to fully charge.

If the initial charge on the battery is over 95%, then the fast charge mode will turn to a "trickle-charge" mode. ln the "trickle-charge" mode, the battery will be maintained at full charge, provided the radio is turned off. The SLOW LED is turned on continuously, and may turn off momentarily every 34 seconds by the "trickle-charging" current. If the battery is charged to 100% of its capacity, the FAST LED will turn off and the SLOW LED will turn on.

Front Charge Slot: Insert battery or radio with battery into Front Charge Slot, observing correct polarity. The SLOW LED will be illuminated, and a charging current of approximately 50mA is provided to the battery. In the slow charge mode, the BKB 191 204/1 or BKB 191 204/2 battery will take approximately 14 hours to fully charge.

NOTE

On occasion when charging a new battery or a battery which has been out of use for a few months, the charger will prematurely switch to the trickle charge before the battery has been fully charged. If this happens, allow the battery to continue trickle-charging overnight. Then remove and reinsert the battery and observe that the battery goes through a normal rapid charge before putting it into service.

MONOGRAM SERIES WARRANTY

A. Ericsson Inc. (hereinafter "Seller") warrants to the original purchaser for use (hereinafter "Buyer") that Equipment manufactured by Seller shall be free from defects in material, workmanship and title, and shall conform to its published specifications. With respect to any Equipment not manufactured by Seller (except for integral parts of Seller's Equipment to which the warranties set forth above shall apply). Seller gives no warranty, and only the warranty, if any, given by the manufacturer shall apply. Batteries are excluded from this warranty but are warranted under a separate Nickel-Cadmium Battery Warranty.

B. Seller's obligations set forth in Paragraph C below shall apply only to failures to meet the above warranties (except as to title) occurring within the following periods of time from date of sale to the Buyer and are conditioned on Buyer's giving written notice to Seller within thirty (30) days of such occurrence:
   1. for fuses, incandescent lamps, vacuum tubes and non-rechargeable batteries, operable on arrival only.
   2. for parts and accessories (except as noted in B.1) sold by Seller's Service Parts Operation, ninety (90) days.
   3. for all other Equipment of Seller's manufacture, one (1) year.

C. If any Equipment fails to meet the foregoing warranties, Seller shall correct the failure at its option (i) by repairing any defective or damaged part or parts thereof, or (ii) by making available at Seller's factory any necessary repaired or replacement parts. Any repaired or replacement part furnished thereunder shall be warranted for the remainder of the warranty period of the Equipment in which it is installed. Where such failure cannot be corrected by Seller's reasonable efforts, the parties will negotiate an equitable adjustment in price. Labor to perform warranty service will be provided at no change only for the Equipment covered under Paragraph B.3, and only during the first three (3) months following the date of sale to the Buyer. Thereafter, labor will be charged at prevailing rates. To be eligible for no-charge labor, service must be performed by an Authorized Service Center or other Services approved for these purposes either at its place of business during normal business hours, for mobile or personal equipment, or at the Buyer's location, for fixed location equipment. Service on fixed location equipment more than thirty (30) miles from the Service Center or other approved Service's place of business will include a charge for transportation. Equipment located off-shore is not eligible for no-charge labor.

D. Seller's obligations under Paragraph C shall not apply to any Equipment, or part thereof, which (i) has been modified or otherwise altered other than pursuant to Seller's written instructions or written approval or, (ii) is normally consumed in operation or, (iii) has a normal life inherently shorter than the warranty periods specified in Paragraph B, or (iv) is not properly stored, installed, used, maintained or repaired, or, (v) has been subjected to any other kind of misuse or detrimental exposure, or has been involved in an accident.

E. The preceding paragraphs set forth the exclusive remedies for claims (except as to title) based upon defects in or nonconformity of the Equipment, whether the claim is in contract, warranty, tort (including negligence), strict liability or otherwise, and however instituted. Upon the expiration of the warranty period, all such liability shall terminate. The foregoing warranties are exclusive and in lieu of all other warranties, whether oral, written, expressed, implied or statutory. NO IMPLIED OR STATUTORY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE SHALL APPLY. IN NO EVENT SHALL THE SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT OR EXEMPLARY DAMAGES. This warranty applies only within the United States.

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